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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/779,943	02/17/2004	Nobuyuki Tatsumi	NGB-15306	9354		
	7590 01/09/200 L & CLARK LLP	EXAMINER				
38210 Glenn A	venue	RAMDHANIE, BOBBY				
WILLOUGHB	Y, OH 44094-7808		ART UNIT	PAPER NUMBER		
			1797			
			MAIL DATE	DELIVERY MODE		
			01/09/2009	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Ap	pplication No.	cation No. Applicant(s)				
		10	0/779,943		TATSUMI, NOBUYUKI			
		Ex	caminer		Art Unit			
		ВС	OBBY RAMDHAN	IIE	1797			
Period fo	The MAILING DATE of this commur r Reply	ication appears	s on the cover s	heet with the c	orrespondence ac	ddress		
WHIC - Exter after - If NO - Failur Any r	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE N sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this com period for reply is specified above, the maximum si e to reply within the set or extended period for reply eply received by the Office later than three months of patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a) munication. ratutory period will ap v will, by statute, caus	OF THIS COM In no event, howeve only and will expire SIX se the application to be	IMUNICATION r, may a reply be tim ((6) MONTHS from the come ABANDONE	I. lely filed the mailing date of this of (35 U.S.C. § 133).			
Status								
1) 又	Responsive to communication(s) file	ed on 05 Nove	mber 2008					
•	•		ion is non-final.					
/		<i>,</i> —		al matters pro	secution as to the	e merits is		
٥,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1 and 3-6 is/are pending in	the application	n.					
-	Claim(s) <u>1 and 3-6</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.							
	6) Claim(s) <u>1 and 3-6</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
-	Claim(s) are subject to restrict	ction and/or ele	ection requireme	ent				
		otion and/or or	ouon roquironi	Sile.				
Applicati	on Papers							
9)☐ The specification is objected to by the Examiner.								
10) 🔲	The drawing(s) filed on is/are	: a) <mark></mark> accepte	ed or b)∐ objed	ted to by the E	Examiner.			
	Applicant may not request that any obje	ction to the drav	ving(s) be held in	abeyance. See	37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
	e (s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I	PTO-948)		erview Summary per No(s)/Mail Da				
3) 🔲 Inform	nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	/	5) 🔲 No	otice of Informal Pa				

Application/Control Number: 10/779,943 Page 2

Art Unit: 1797

DETAILED ACTION

Response to Amendment

Allowable Subject Matter

1. The indicated allowability of claims 3-6 are withdrawn in view of the newly discovered reference(s) to Nobuyuki (JP09-127078). Applicant has submitted this reference in IDS dated: 08/02/2007. Rejections based on the newly cited reference(s) follow.

Response to Arguments

- 2. Applicant's arguments, see Remarks, filed 11/05/2008, with respect to the rejections under 112 have been fully considered and are persuasive. The rejections of 112 have been withdrawn.
- 3. Applicant's arguments with respect to claims 1 & 3-6 have been considered but are moot in view of the new ground(s) of rejection. The new grounds of rejection are necessitated by Applicant's amendments to the Claims in which a pump or "exchanging mechanism" has been added.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/779,943 Page 3

Art Unit: 1797

5. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 1 & 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimadzu's AOC-17 Auto Injector or AOC-20 series Automatic Sampling System in view of Nobuyuki (JP09-127078).
- 7. Applicant's claims are toward a device and method.
- 8. Regarding Claims 1 & 5, Shimadzu's AOC-17 and AOC-20, discloses the automatic sampler and method, comprising: A). A needle adapted to draw a sample from a sample liquid bath and to inject the sample into a sample introducing portion which is in fluid communication with a column of a liquid chromatography (See Sample injection method, both require a syringe which has a needle); B). A first rinsing bath adapted to contain a first rinsing liquid (See Solvent Flush Injection mode & Injection), a receptacle is needed to hold the rinsing solution); C). A second rinsing bath adapted to contain at least one kind of second rinsing liquid (See Solvent Flush Injection mode & Injection); and E). A controller, configured to execute at least one of a first rinsing operation which soaks the needle in the first rinsing liquid in the first rinsing liquid in the second rinsing liquid in the second rinsing liquid in the second rinsing liquid in the needle is kept

Art Unit: 1797

inserted into the second rinsing bath (see PC which has the appropriate software and the needle must be within the bath itself for some duration of time to obtain the sample, which essentially allows for soaking). Shimadzu's AOC-17 and AOC-20 do not disclose D) an exchanging mechanism operable to exchange the second rinsing liquid in the second rinsing bath. Nobuyuki discloses the automatic sampler, comprising: A). A needle adapted to draw a sample from a sample liquid bath and to inject the sample into a sample introducing portion which is in fluid communication with a column of a liquid chromatography (See Drawing 1 Item 17 a needle); B). A rinsing bath adapted to contain a rinsing liquid (See Drawing 1 Item 20 which contains a rinsing solvent and D). An exchanging mechanism operable to exchange the rinsing liquid in the rinsing bath (See Drawing 1 Item 11 – which is a syringe which is used as a pump to pump fluid into the rinsing bath). It would have been obvious to one of ordinary skill in the art at the time the invention was made (note: both prior art references are from the same assignee) to modify the automatic sampler of the AOC-17 and the AOC-20 with sampler of Nobuyuki and a second or a plurality of rinsing baths and exchanging mechanisms since it has been held that broadly providing a mechanical or automatic means to replace manual activity which has accomplished the same result involves only routine skill in the art. In re Venner, 120 USPQ 192, and since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

Art Unit: 1797

- 9. For Claim 3, the combination of Shimadzu's AOC-17 and AOC-20 and Nobuyuki discloses the method for rinsing a needle of an automatic sampler, said method comprising: A). Providing a first rinsing bath containing a first rinsing liquid; B). Providing a second rinsing bath containing a second rinsing liquid;, and a second rinsing operation in which the needle is soaked in the second rinsing liquid in the second rinsing bath and the second rinsing liquid is exchanged while the needle is kept inserted into the second rinsing bath; and D). Executing the at least one of the first rinsing operation and the second rinsing operation selected by the operator (See Rejections above to Claims 1 & 5). The combination does not explicitly disclose C) causing an operator to select at least one of a first rinsing operation in which the needle is soaked in the first rinsing liquid in the first rinsing bath. The combination does however disclose that multiple samples made be used with each sampler. It would have been obvious to one of ordinary skill in the art at the time the invention was made to cause an operator to select at least one of a first rinsing operation in which the needle is soaked in the first rinsing liquid in the first rinsing bath because the references all disclose using the same needle for multiple samples, which invariably would cause an operator to use one rinsing liquid bath over another depending on the samples injected (either aqueous or organic).
- 10. For Claim 4, the combination of AOC-17 and AOC-20 and Nobuyuki disclose the method for rinsing a needle of an automatic sampler according to claim 3, further comprising: selecting one of plural kinds of liquid as the second rinsing liquid to be supplied to the second rinsing bath to exchange the second rinsing liquid in the second

Art Unit: 1797

rinsing bath (See Rejection of Claim 3 above, this would be essential depending on the type of sample use - aqueous or organic sample).

11. Regarding Claim 6, the combination of AOC-17 or AOC-20 with Nobuyuki discloses the automatic sampler according to claim 5, except for further comprising: a switcher, configured to select one of plural kinds of liquid as the second rinsing liquid supplied to the second rinsing bath. It would have been obvious to one of ordinary skill in the art a the time the invention was made to modify the autosampler to include a switcher to configured to select one of plural kinds of liquid as the second rinsing liquid supplied to the second rinsing bath because switchers (Examiner takes the position that 3, 4, 6, 8–port valves are included in this term) are commonly found in liquid chromatography instruments for selecting different solvents and solvent systems in FPLCs, HPLCs, and ESI-MS instruments depending on the samples being investigated.

Telephonic Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BOBBY RAMDHANIE whose telephone number is (571)270-3240. The examiner can normally be reached on Mon-Fri 8-5 (Alt Fri off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Griffin can be reached on 571-272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/779,943

Art Unit: 1797

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Page 7

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/B. R./

/Walter D. Griffin/

Supervisory Patent Examiner, Art Unit 1797